

**Amendments to the Claims**

This listing of the claims will replace all prior versions and listings of claims in the application.

**Listing of Claims:**

1. (Currently Amended) A multi-lamp backlight system comprising:
  - a core;
  - a first coil set wrapped around the core, to which a first AC voltage is applied;
  - a second coil set and a third coil set wrapped around the core and respectively disposed on ~~either~~ first and second sides of the first coil set, on which ~~[[a]]~~ second and third AC voltages are induced by the first AC voltage signal applied to the first coil set respectively, wherein the number of coils in the second and third coil sets are substantially the same; and
  - a first lamp and a second lamp supplied with power by the second and third AC voltages respectively.
2. (Currently Amended) The system as claimed in claim 1, wherein the first and second lamps are discharge lamps.
3. (Original) The system as claimed in claim 2, wherein the discharge lamps are CCFL (Cold Cathode Fluorescent Lamp).
- 4 (Previously Presented) The system as claimed in claim 1, wherein each of the second and third coil sets has two ends of, respectively, first and second polarities, and the first lamp and the second lamp are coupled to the ends of the first polarity of the second and third coil sets respectively.
5. (Previously Presented) The system as claimed in claim 1 further comprising:
  - a first capacitor and a second capacitor coupled between the first lamp and the second coil set, and the second lamp and the third coil set, respectively.

6. (Original) The system as claimed in claim 1 further comprising a first driving circuit providing the first AC voltage.

7. (Currently Amended) The system as claimed in claim 6 further comprising a plurality of fourth coil sets and a plurality of third lamps, wherein numbers of coils of the fourth coil sets are substantially the same, the fourth coil sets are symmetrically disposed on ~~two~~ first and second sides of the first coil set, the first AC voltage applied to the first coil set induces a fourth AC voltage on each of the fourth coil sets and the third lamps are supplied with power by the fourth AC voltages.

8. (Original) The system as claimed in claim 6 further comprising:

a second driving circuit; and

a fifth coil set wrapped around the core, and having a first end coupled to a first end of the first coil set and a second end coupled to the second driving circuit.

9. (Previously Presented) The system as claimed in claim 8, wherein the second driving circuit comprises:

a first transistor having a source, a gate and a drain, wherein the drain of the first transistor is coupled to a second end of the first coil set and the gate of the first transistor is coupled to receive a fifth AC voltage;

a second transistor having a source, a gate and a drain, wherein the drain of the second transistor is coupled to the second end of the fifth coil set, the gate of the second transistor is coupled to receive a sixth AC voltage, and a bulk coupled to ground;

a first diode and a second diode respectively coupled between the source and the drain of the first transistor, and the source and the drain of the second transistor; and

a capacitor coupled between a bulk of the first transistor and the first end of the first coil set.

10. (Previously Presented) The system as claimed in claim 8, wherein the first coil set and the fifth coil set are disposed between the second and third coil sets.

11. (Currently Amended) The system as claimed in claim 8 further comprising a plurality of sixth coil sets and a plurality of fourth lamps, wherein number of coils of the sixth coil sets are substantially the same, the sixth coil sets are symmetrically disposed on either first and second sides of the first and fifth coil sets so that the first and fifth coil sets are disposed between the sixth coil sets, the first AC voltage applied to the first coil set induces a seventh AC voltage on each of the sixth coil sets, and the fourth lamps are supplied with power by the seventh AC voltages.

12. (Previously Presented) The system as claimed in claim 6 further comprising:

- a third driving circuit;

- a seventh coil set wrapped around the core, and having a first end coupled to the first end of the first coil set and a second end coupled to the third driving circuit; and

- an eighth coil set wrapped around the core, and having a first end and a second end coupled to the third driving circuit.

13. (Original) The system as claimed in claim 12, wherein the third driving circuit comprises:

- an inductor having a first end coupled to receive the first AC voltage and a second end coupled to the first end of the first coil set;

- a first transistor having a drain coupled to a second end of the first coil set, a source coupled to ground and a gate coupled to a first end of the eighth coil set;

- a second transistor having a drain coupled to a second end of the seventh coil set, a source coupled to ground and a gate coupled to a second end of the eighth coil set; and

- a first and second resistor respectively coupled between the gate of the first transistor and the first end of the first coil set, and the gate of the second transistor and the first end of the first coil set.

14. (Original) The system as claimed in claim 12, wherein the first, seventh and eighth coil sets are disposed between the second and third coil sets.

15. (Currently Amended) The system as claimed in claim 12 further comprising a plurality of ninth coil sets and a plurality of fifth lamps, wherein number of coils of the ninth coil sets are substantially the same, the ninth coil sets are symmetrically disposed on ~~either~~ first and second ~~sides~~ of the first, seventh and eighth coil sets so that the first, seventh and eighth coil sets are disposed between the ninth coil sets, the first AC voltage applied to the first coil set induces an eighth AC voltage on each of the ninth coil sets and the fifth lamps are supplied with power by the eighth AC voltages.

16. (Previously Presented) The system as claimed in claim 6 further comprising a feedback network coupled between the first lamp and the second lamp, and the first driving circuit.

17. (Currently Amended) A multi-lamp backlight system comprising:

a core;

a first coil set wrapped around the core, to which a first AC voltage is applied;

a plurality of second coil sets wrapped around the core and symmetrically disposed on ~~two~~ first and second ~~sides~~ of the first coil set, on ~~each of~~ which a plurality of second AC voltages ~~is~~ are induced by the first voltage signal applied to the first coil set, wherein number of coils of the second coil sets are substantially the same; and

a plurality of lamps supplied with power by the second AC voltages.

18. (Original) The system as claimed in claim 17, wherein the lamps are discharge lamps.

19. (Original) The system as claimed in claim 18, wherein the discharge lamps are CCFL.

20. (Original) The system as claimed in claim 17, wherein each of the second coil sets has two ends of, respectively, first and second polarities, and the lamps are coupled to the ends of the first polarity of the second coil sets.

21. (Original) The system as claimed in claim 17 further comprising a driving circuit providing the first AC voltage.

22. (Original) The system as claimed in claim 21 further comprising a feedback network coupled between the lamps and the driving circuit.

23 (Canceled)